



## UNITED STATES DEPARTMENT OF COM United States Patent and Trademark Offic

COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

HICH ATTORNEY DOCKET NO.

03/957,431

10/24/97

HOLLAND

OPRILL

IM62/0504

FIRST NAMED INVENTOR

RHODES COATS BENNETT, L.L.P.

P 0 ROY 2974

GREENSBORO NO 27402

**EXAMINER** 

WALLARWER, J

PAPER NUMBER ART UNIT

1735

DATE MAILED:

06/04/01

Please find below and/or attached an Office communication concerning this application or proceeding.

**Commissioner of Patents and Trademarks** 

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| N 991 22 20 22 4 1 2 2 1 1 2   | oplicant(s)   |
| Office Action Summary RADEMARK OF Examiner   | Group Art Unit  |
| —The MAILING DATE of this communication appears on the cover sheet bene  | eath the correspondence address   |
| Period for Reply   |   |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE  | MONTH(S) FROM THE MAILING DATE  |
| <ul> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, m from the mailing date of this communication.</li> <li>If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum.</li> <li>If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the Failure to reply within the set or extended period for reply will, by statute, cause the application to become</li> </ul> | of thirty (30) days will be considered timely. e mailing date of this communication . |
| Status   |   |
| ☐ Responsive to communication(s) filed on  | •   |
| ☐ This action is FINAL.  |   |
| ☐ Since this application is in condition for allowance except for formal matters, <b>prosecu</b> accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 1 1; 453 O.G. 213.  | ution as to the merits is closed in   |
| Disposition of Claims  |   |
| Claim(s)   | is/are pending in the application.  |
| Of the above claim(s)  | is/are withdrawn from consideration.  |
| ☐ Claim(s)   | is/are allowed.   |
|  |   |
| □ Claim(s)   | is/are objected to.   |
| ☑ Claim(s)   | are subject to restriction or election  |
|  | requirement.  |
| Application Papers   |   |
| ☐ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.  |   |
| ☐ The proposed drawing correction, filed on is ☐ approved ☐ ☐ The drawing(s) filed on is/are objected to by the Examiner.  | disapproved.  |
|  |   |
| <ul> <li>□ The specification is objected to by the Examiner.</li> <li>□ The oath or declaration is objected to by the Examiner.</li> </ul>   |   |
| ·  |   |
| Priority under 35 U.S.C. § 119 (a)-(d)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 11 9(a)-(d)   |   |
| <ul> <li>☐ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have</li> <li>☐ received.</li> </ul>   | e been  |
| ☐ received. ☐ received in Application No. (Series Code/Serial Number)  |   |
| received in this national stage application from the International Bureau (PCT Rul   |   |
| *Certified copies not received:  | •   |
| Attachment(s)  |   |
| ☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).  | erview Summary, PTO-413   |
| ☑ Notice of Reference(s) Cited, PTO-892 □ Not  | ice of Informal Patent Application, PTO-152   |
|  | ner   |
| Office Action Summary  |   |

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97)

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Part of Paper No.

Art Unit 1733

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.
- 2. Restriction to one of the following inventions is required under 35 U.S.C. § 121:
- I. Claims 1-21, drawn to lamination methods, classified in Class 156, subclass 309.6, 192.
- II. Claims 23-24, drawn to a composite laminate, classified in Class 442, subclass 304.
- 3. The inventions are distinct, each from the other because of the following reasons:

Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the laminate can be made by using a different temperature in lamination and decreasing the contact time by applying pressure under vacuum.

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art, as shown by the above classification, and since the fields of search

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are not co-extensive, restriction for examination purposes as indicated is proper.

- 5. During a telephone conversation with Mr. Robert Rhodes on 01 May 2001 (call made by Examiner N. Torres-Velazquez, Art Unit 1771) a provisional election was made WITHOUT traverse to prosecute the invention of Group I, claims 1-21. Affirmation of this election must be made by applicants in replying to this Office action. Claims 22-24 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.
  - 6. Applicants are reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
    - 7. Claims 1 and 3 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicants regard as the invention. Specifically, EITHER the word "yarn" (claim 1 line 3) OR the word "fiber" (claim 3 line 1) should be used consistently throughout, for the sake of proper antecedent basis.

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8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-7 and 9-14 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Yagi et al.

Yagi et al. disclose that it is known to form a composite laminate article (e.g. fabric) via a process wherein a fabric (woven, non-woven, knitted etc.) is made up of UHMWPE fiber is laminated/bonded to a thermoplastic (e.g. low or high density polyethylene) fiber in a suitable heat and pressure lamination process i.e. by employing appropriate process variables or conditions (viz. P, T, t) to satisfactorily effect the aforementioned lamination. (Figs. 6-7, Abstract, column 5 lines 34-62, column 11 lines 1-57, column 14 line 23 thru column 15 line 5, column 16 lines 9-11). All of the essential limitations of these claims are held to be satisfied by this reference, the use by these patentees of the same fibers and film materials as those employed by applicants being held to ensure

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that the desired properties envisioned by applicants (viz. cut and puncture resistance) are effected and achieved.

- 10. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claim 8 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Yagi et al. in view of Rossetti.

Rossetti discloses that in the production of composite laminates of fabric and thermoplastic (e.g. polyethylene) film substrates (i.e. of the type/similar to those of Yagi et al.) in a heat and pressure lamination process (i.e. a process of the type employed in Yagi et al.), it is known to maintain the lamination pressure while the laminate cools i.e. to cool under pressure (Fig. 1, Abstract, column 3 line 27-36, N.B. column 4 lines 20-38 and especially lines 35-38), such that it would have been obvious to one of ordinary skill in this art to employ such a conventional, documented cooling under pressure technique in/in conjunction with the process of Yagi et al., wherever deemed

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desirable and/or necessary; mere utilization of a known (and apparently beneficial) technique involved.

12. Claims 15-21 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Yagi et al. taken in combination with Rerolle et al.

Rerolle et al. disclose that it is known to effect lamination between substrates composed of a fabric and a thermoplastic (e.g. polyethylene) film via a process wherein the substrates are contacted, wound into a roll or bundle and then heated such that a laminated/bonded composite is formed (Abstract, column 2 lines 4-10), such that it would have been obvious to one of ordinary skill in this art to employ the technique/methodology of Rerolle et al. in/in conjunction with the process of Yagi et al. i.e. in place of the corresponding, analogous lamination procedure/technique employed therein, mere substitution of one such known technique for another being involved; alternatively, it would have been obvious to one so skilled to employ the (specific) substrate materials of Yagi et al. in the process of Rerolle et al. in place of the corresponding, analogous (generic) substrate materials employed therein, mere substitution of one known set of substrate materials for another being involved. The sum total of the teachings of these applied, combined references taken as a whole Serial No. 08/957,431

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is held to render applicants' invention obvious to one of

ordinary skill in this art. (In re McLaughlin 170 USPQ 209).

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. J. Gallagher whose telephone number is (703) 308-1971. The examiner can normally be reached on M-F from approximately 8:30 A.M. to 5 P.M. The examiner can also be reached on alternate N/A.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Ball, can be reached on (703) 308-2058. The fax phone number for this Group is (703) 305-3599.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0661/0662.

JJGallagher:cdc

May 29, 2001

JJHN J. GALLAGHER PRIMARY EXAMINER ART UNIT ままノ つろ ろ MAR 1 3 1998 & TADEMARK OF COMMERCE ATTY DKT

in conformance and not considered. Include copy of this form with next communication to applicant.

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|      |                |          |                     |  |                           | APPLICANT       |     |              |              |              |
|      |                |          |                     |  | _                         | John E. Holland |     | 7            |              |              |
|      |                |          | INFORMATION D       |  |                           | FILING DATE     |     | GROU         | JP , フ       | <b>イ</b> ス   |
|      |                |          | STATEMENT BY A      | APPLICAN   | <u>T</u>                  | October 24, 19  | 97  | <u> </u>     |              | 77           |
|      |                |          |                     | U.S.   | PATENT DOCUMENTS          | <b>;</b>        |     |              |              |              |
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| 4    | 70-            | Α        | 4,597,818           | 7/1986   | Aoyama et al.             | <b>\</b> \56    | 30  | 08.2         |              |              |
|      |                | В        | 4,957,804           | 9/1990   | Hendrix et al.            | 428             | 2   | 12           | İ            |              |
|      |                | С        | 4,983,433           | 1/1991   | Shirasaki                 | 422             | 30  | 5.1          |              |              |
|      |                | D        | 5,160,472           | 11/1992  | Zachariades               | 264             | 1:  | 36           |              |              |
|      |                | E        | 5,160,767           | 11/1992  | Genske et al.             | 428             | 3:  | 5.98         |              |              |
|      |                | F        | 5,169,697           | 12/1992  | Langley et al.            | 428             | 1   | 7            |              |              |
|      |                | G        | 5,248,364           | 9/1993   | Liu et al.                | 156             | 2   | <b>4</b> .11 | <b>†</b>     |              |
|      |                | Н        | 5,266,390           | 11/1993  | Garland                   | 428             | 1   | 16           | 1            |              |
|      |                | I        | 5,284,540           | 2/1994   | Roth et al.               | 156             | 10  | 50           |              |              |
|      | /              | J        | 5,286,576           | 2/1994   | Srail et al.              | 428             |     | 17           | 1            | <del>-</del> |
|      | -              |          | DOCUMENT            | FOREI  | GN PATENT DOCUMEN COUNTRY | NTS CL.         | LSU | BCL          | TRANS        | LATION       |
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| 1    | 15             | K        | DE 4441842 A1       | 6/1995   | Germany                   |                 |     | _   2        |              |              |
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|  |  |           |                      |  | _                             |               | Holland et                                       |               |          |              |             |
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|  |  |           | STATEMENT BY         | APPLICAN   | <u>rr</u>                     | October       | 24, 1997   |               |          |              | 7)          |
|  |  |           |                      | U.S.   | PATENT DOCUMENTS              | 6             |  |               |          |              |             |
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|  | 50   | L         | 5,389,448            | 2/1995   | Schirmer et al.               | <del></del>   | 428  | 517           |          |              |             |
|  | <u> </u>   | M         | 5,443,874            | 8/1995   | Tachi et al.                  |               | 428  | 36.7          |          | <del> </del> |             |
| -  | <del>                                     </del> | N         | 5,445,883            | 8/1995   | Kobayashi et al.              |               | 428  | 355           |          | -            |             |
| <del>                                     </del> |  | 0         | 5,460,884            | 10/1995  | Kobylivker et al.             |               | 428  | 373           | <u></u>  | -            |             |
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| in cor   | formanc  | e and not | considered. Include  | copy of thi                                      | s form with next communic     | cation to a   | pplicant.  |               |          | -            |             |

(Form PTO-1449)



Form PTO 948 (Rev. 8-98)

U.S. DEPARTMENT OF COMMERCE - Patent and Trademark Office

Application No. <u>08/957.43</u> (

# NOTICE OF DRAFTSPERSON'S PATENT DRAWING REVIEW

| Mack ink. Color.   Color drawings are not acceptable until petiton is granted.   |  |   |
|--|--|---|
| Men page is either upright or turned so that the top becomes the right side, except for graphs. Fig(s)  Pencil and non black ink not permitted. Fig(s)  Pencil and non black ink not permitted. Fig(s)  Photographs not properly mounted (must use brystol board or photographs to properly mounted (must use brystol board or photographs (pig(s)  10. CHARACTER OF LINES, NUMBERS, & LETTERS.  37 CPR 1.84(p)  Lines, numbers & letters not uniformly thick and well defined, clean, plant  | PRAWINGS. 37 CFR 1.84(a): Acceptable categories of drawings: |   |
| becomes the right side, except for graphs. Fig(s)  Pencil and non black ink not permitted. Fig(s)  1 full-tone set is required. Fig(s)  Photographs not properly mounted (must use brystol board or photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s)  YPE OF PAPER. 37 CFR 1.84(e)  Paper not flexible, strong, white, and durable.  Fig(s)  Prager not flexible, strong, white, and durable.  Fig(s)  Prager not flexible, strong, white, and durable.  Fig(s)  Mylar, velum paper is not acceptable (too thin).  Fig(s)  Z10. or the y 27. or (m (DIN size A4))  Z11. or the y 27. or (m (DIN size A4))  Z12. or the y 27. or (m (B) fize A1)  Z13. or the y 27. or (m (B) fize A1)  Z14. or the y 27. or (m (B) fize A1)  Z15. or the y 27. or (m (B) fize A1)  Z16. or the y 27. or (m (B) fize A1)  Z17. or the y 27. or (m (B) fize A2)  Z18. or the y 27. or (m (B) fize A2)  Z19. or the y 27. or (m (B) fize A3)  Z19. or the y 27. or (m (B) fize A3)  Z19. or the y 27. or (m (B) fize A3)  Z10. or the y 27. or (m (B) fize A3)   | Black ink. Color.  |   |
| Pencil and non black ink not permitted. Fig(s)  HOTOGRAPHS. 37 CFR 1.84 (b)  I full-tone set is required. Fig(s)  Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s)  Poor quality (half-tone). Fig(s)  Paper not flexible, strong, white, and durable.  Fig(s)  Erasures, alterations, overwritings, interlineations, folds, copy machine marks not acceptable. Fig(s)  All drawing sheets not the same size.  21.0 cm by 29.7 cm (DIN size 44)  21.6 cm by 27.9 cm (B 1/2 x 11 inches)  All drawing sheets not the same size.  Shee(s)  Thewangs sheets not an acceptable size. Fig(s)  ARGINS, 37 CFR 1.84(g). Acceptable margins:  12.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: A4 Size  Dp 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: 8 1/2 x 11  fargins not acceptable. Fig(s)  Top (T)  Left (L)  Right (R)  Bottom (B)  EleMINDER: Specification may require revision to orrespond to drawing changes.  All drawings and the same size.  Brackets needed to show figure as one entity.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Enla |  |   |
| HIGHORAPHS. 37 CFR 1.84 (b)  1 full-tone set is required. Fig(s) Photographic double-weight paper). Fig(s) Proor quality (half-tone). Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, intertineations, folds, copy machine marks not acceptable (too thin). Fig(s) Mylar, velum paper is not acceptable (too thin). Fig(s) 21.0 cm by 29.7 cm (B1/2 x 11 inches) All drawing sheets not the same size. Shect(s) Shect(s) Paper not flexible, strong, white, and durable. Fig(s) 21.0 cm by 29.7 cm (B1/2 x 11 inches) All drawing sheets not the same size. Shect(s) Shect(s) Paper not flexible departed by the first of |  |   |
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| Photographs not properly mounted (must use brystol board or photographic double-weight paper). Fig(s) Poor quality (half-tone). Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Frasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) Mylar, velum paper is not acceptable (too thin). Fig(s) Mylar, velum paper is not acceptable sizes: 21.0 cm by 27.9 cm (Dln size A4) 21.6 cm by 27.9 cm (B 1/2 x 11 inches) All drawing sheets not the same size. Sheet(s) Sheet(s) Sheet sheets not an acceptable margins:  Op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: A4 Size Op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm SIZE: B 1/2 x 11 Aragins not acceptable. Fig(s) Top (T) Left (L) Right (R) Bottom (B) Wews not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Hatching not indicated for sectional portions of an object. Fig(s) Sectional designation should be noted with Arabic or  |  |   |
| photographic double-weight paper). Fig(s) Poor quality (habt-lone). Fig(s) Poor quality (habt-lone). Fig(s) Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s) Mylar, velum paper is not acceptable (too thin). Fig(s) EZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes: 21.0 cm by 29.7 cm (DIN size A4) 21.6 cm by 27.9 cm (8 1/2 x 11 inches) Ald drawing sheets not the same size. Sheet(s) Paper wangs sheets not an acceptable size. Fig(s) SIZE: 8 1/2 x 11 Argins not acceptable. Fig(s) Top (T) Left (L) Right (R) Bottom (B) EMINDER: Specification may require revision to orrespond to drawing changes. Targins and acceptable. Fig(s) Paper wangs for the same size. Sheet (s) Fig(s) Top (T) Left (L) Right (R) Bottom (B) EMINDER: Specification may require revision to orrespond to drawing changes. The sumps of the same size one entity. Fig(s) LEMINDER: Specification may require revision to orrespond to drawing changes. The sumps of the same size one entity. Fig(s) LEMINDER: Specification may require revision to orrespond to drawing changes. The sumps of the same size of the same direction as the view. 37 CFR 1.84(p)(2) Fig(s) LEMINDER: Specification may require revision to orrespond to drawing changes. The sumps of the same size of the same direction as the view. 37 CFR 1.84(p)(2) Fig(s) Lead lines cross each other. Fig(s) Lead lines missing. Fig(s)  Numbern (S) CRECTIONS. 37 CFR 1.84(w) Views not labeled separately or properly. Fig(s) Lead lines missing. Fig(s) To DRAWINGS. 37 CFR 1.84(w) Corrections not made from prior PTO-948 dated  To DESIGN DRAWINGS. 37 CFR 1.52(s) Socilo black shading not used for color contrast.   |  |   |
| Poor quality (half-tone). Fig(s)  Paper not flexible, strong, white, and durable. Fig(s)  Erasures, alterations, overwritings, interlineations, folds, copy machine marks not accepted. Fig(s)  Mylar, velum paper is not acceptable (too thin). Fig(s)  LZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:  21.0 cm by 29.7 cm (DIN size A4)  21.6 cm by 27.9 cm (8 1/2 x 11 inches)  All drawing sheets not the same size. Sheel(s)  Paperwings sheets not an acceptable size. Fig(s)  Solid black shading not permitted. Fig(s)  Solid black shading not used into permitted. Fig(s)  Solid black shading not used into permitted. Fig(s)  Solid black shading not used into permitted. Fig(s)  NUMBERS, ETTERS, 70 FR 1.84(n)  Solid black shading not used into permitted. Fig(s)  NUMBERS, ETTERS, and black (poor line quality).  Fig(s)  Fig(s)  Fig(s)  Fig(s)  Fig(s)  Solid black areas pale. Fig(s)  NUMBERS, & LETTERS.  11. SHADING. 37 CFR 1.84(n)  Solid black shading not uniformly thick and well defined, clean, durable, and black (poor line quality).  Fig(s)  Fig(s)  Fig(s)  Fig(s)  Solid black shading not used into permitted. Fig(s)  Numbers and reference characters not plain and legible. Fig(s)  Solid black shading not used. 37 CFR 1.84(p)(2)  Fig(s)  Fig(s)  Solid black shading not used (or color contrast.)  12. NUMBERING OF |  | Fig(s)  |
| Paper not flexible, strong, white, and durable. Fig(s) Erasures, alterations, overwritings, interlineations, (olds, copy machine marks not accepted. Fig(s) Mylar, velum paper is not acceptable (too thin). Fig(s) Solid black areas pale. Fig(s) Solid black areas pale. Fig(s) Solid black areas pale. Fig(s) Solid black steading not permitted. Fig(s) Fi |  | 10. CHARACTER OF LINES, NUMBERS, & LETTERS.               |
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| Erasures, alterations, overwritings, interlineations, folds, copy machine marks not acceptable. Fig(s)   | Paper not flexible, strong, white, and durable.              |   |
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| Mylar, velum paper is not acceptable (too thin).  Fig(s)  Eig(s)  Eig(s)  Z1.0 cm by 29.7 cm (DIN size A4)  Z1.6 cm by 29.7 cm (DIN size A4)  Z1.6 cm by 27.9 cm (8 1/2 x 11 inches)  All drawing sheets not the same size.  Sheel(s)  Sheel(s)  Disawings sheets not an acceptable margins:  ARGINS. 37 CFR 1.84(g): Acceptable margins:  Disawings sheets not an acceptable size. Fig(s)  SIZE: A4 Size  Disawings sheets not an acceptable margins:  Disawings sheets not an acceptable margins:  Disawings sheets not an acceptable margins:  Disawings sheets not an acceptable size. Fig(s)  SIZE: A4 Size  Disawings sheets not an acceptable margins:  Disawings sheets not an acceptable margins:  Disawings sheets not an acceptable size. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  Fig(s)  SIZE: A4 Size  Disability A |  |   |
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| IZE OF PAPER. 37 CFR 1.84(f): Acceptable sizes:   21.0 cm by 29.7 cm (DIN size A4)   12 NUMBERS, LETTERS, & REFERENCE CHARACTERS.   21.0 cm by 27.9 cm (B 1/2 x 11 inches)   37 CFR 1.84(p)   Numbers and reference characters not plain and legible.   Fig(s)   Figure legends are poor. Fig(s)   Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)   Fig(s)   English alphabet not used. 37 CFR 1.84(p)(2)   Figure legends are poor. Fig(s)    |  |   |
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| All drawing sheets not the same size.  Shee(s)  Drawings sheets not an acceptable size. Fig(s)  Fig(s)  Figure legends are poor. Fig(s)  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  Fig(s)  SIZE: A4 Size  op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: 8 1/2 x 11  Aragins not acceptable. Fig(s)  Top (T)  Right (R)  Bottom (B)  VIEWS. 37 CFR 1.84(h)  EMINDER: Specification may require revision to orrespond to drawing changes.  Brackets needed to show figure as one entity.  Fig(s)  Views not labeled separately or properly.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Sectional designation should be noted with Arabic or  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  Fig(s)  Size: A4 Size  SIZE: 8 1/2 x 11  Anumbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2)  Figs  Size: 8 1/2 x 11  At Size  Size: 8 1/2 x 11  At Size  Size: 8 1/2 x 11  Size is mixed in the view. 37 CFR 1.84(p)(2)  Figs  Size is not numbers, letters and reference characters must be at leas 3.2 cm (1/8 inch) in height. 37 CFR 1.84(p)(3)  Fig(s)  Lead lines cross each other. Fig(s)  Lead lines cross each other. Fig(s)  Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)  Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Fig(s)  Views not numbered consecutively, and in Arabic numer beginning with number 1. Fig(s)  Size of 1.84(h)(3)  Anumbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2)  Figs  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(2)  Fig(s)  NumBers nd reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(3)  Fig(s)  NumBers nd reference characters not o |  |   |
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| Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: A4 Size  op 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm  SIZE: 8 1/2 x 11  fargins not acceptable. Fig(s)  Top (T)  Right (R)  Right (R)  Bottom (B)  IEMINDER: Specification may require revision to orrespond to drawing changes.  artial views. 37 CFR 1.84(h)(2)  Brackets needed to show figure as one entity.  Fig(s)  Englanged view not labeled separately or properly.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Hatching not indicated for sectional portions of an object.  Fig(s)  Sectional designation should be noted with Arabic or  Numbers and reference characters not oriented in the same direction as the view. 37 CFR 1.84(p)(1)  Fig(s)  English alphabet not used. 37 CFR 1.84(p)(2)  Figs  Surface shading shown not appropriate. Fig(s)  Surface shading shown not appropriate. Fig(s)  Sulface shading not used for color contrast.  |  |   |
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| Argins not acceptable. Fig(s)  | Top 2.5 cm Left 2.5 cm Right 1.5 cm Bottom 1.0 cm            | Figs  |
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| Righi (R) Bottom (B)  Righi (R) Bottom (B)  IEWS. 37 CFR 1.84(h)  Lead lines cross each other. Fig(s)  Lead lines missing. Fig(s)  Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Enlarged view not labeled separately or properly.  Fig(s)  Enlarged or not labeled separately or properly.  Fig(s)  ECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  Hatching not indicated for sectional portions of an object.  Fig(s)  Sectional designation should be noted with Arabic or  13. LEAD LINES. 37 CFR 1.84(q)  Lead lines cross each other. Fig(s)  Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)  Views not numbered consecutively, and in Arabic numer beginning with number 1. Fig(s)  Corrections. 37 CFR 1.84(w)  Corrections not made from prior PTO-948  dated  17. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate. Fig(s)  Solid black shading not used for color contrast.  | Margins not acceptable. Fig(s)                               |   |
| Lead lines cross each other. Fig(s)   Lead lines cross each other. Fig(s)   Lead lines missing. Fig(s)   Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)   Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)   Lead lines missing. Fig(s)   Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)   Lead lines missing. Fig(s)   Sheets not numbered consecutively, and in Arabic numer beginning with number 1. Sheet(s)   Lead lines missing. Fig(s)   Lead lines cross each other. Fig(s)   Lead lines cross each other. Fig(s)   Lead lines missing. Fig(s)   Lead lines continue missing. Fig(s)   Lead lines    |  |   |
| Lead lines missing. Fig(s) orrespond to drawing changes. artial views. 37 CFR 1.84(h)(2) Brackets needed to show figure as one entity. Fig(s) Views not labeled separately or properly. Fig(s) Enlarged view not labeled separately or properly. Fig(s) Sectional designation should be noted with Arabic or  Lead lines missing. Fig(s)  Sheets not numbered consecutively, and in Arabic numers beginning with number 1. Sheet(s)  Views not numbered consecutively, and in Arabic numers beginning with number 1. Fig(s)  Corrections. 37 CFR 1.84(w)  Corrections not made from prior PTO-948  dated  Hatching not indicated for sectional portions of an object. Fig(s) Sectional designation should be noted with Arabic or Solid black shading not used for color contrast.  |  |   |
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| Brackets needed to show figure as one entity.  Fig(s) 15. NUMBERING OF VIEWS. 37 CFR 1.84(u)  Views not labeled separately or properly.  Fig(s) 2 Views not labeled separately or properly.  Fig(s) 2 beginning with number 1. Fig(s) 2 beginning with number 1. Fig(s) 37 CFR 1.84(w)  Fig(s) 4 CORRECTIONS. 37 CFR 1.84(w)  ECTIONAL VIEWS. 37 CFR 1.84 (h)(3) 4 dated 5 Sectional designation should be noted with Arabic or 5 Solid black shading not used for color contrast.   |  |   |
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| ECTIONAL VIEWS. 37 CFR 1.84 (h)(3)  Hatching not indicated for sectional portions of an object.  Fig(s)  Sectional designation should be noted with Arabic or  dated  17. DESIGN DRAWINGS. 37 CFR 1.152  Surface shading shown not appropriate. Fig(s)  Solid black shading not used for color contrast.   |  |   |
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| Fig(s) Surface shading shown not appropriate. Fig(s) Sectional designation should be noted with Arabic or Solid black shading not used for color contrast.   |  | 17. DESIGN DRAWINGS. 37 CFR 1.152                         |
| Sectional designation should be noted with Arabic or Solid black shading not used for color contrast.  |  |   |
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#### INFORMATION ON HOW TO EFFECT DRAWING CHANGES

#### 1. Correction of Informalities--37 CFR 1.85

File new drawings with the changes incorporated therein. The application number or the title of the invention, inventor's name, docket number (if any), and the name and telephone number of a person to call if the Office is unable to match the drawings to the proper application, should be placed on the back of each sheet of drawings in accordance with 37 CFR 1.84(c). Applicant may delay filing of the new drawings until receipt of the Notice of Allowability (PTOL-37). Extensions of time may be obtained under the provisions of 37 CFR 1.136. The drawing should be filed as a separate paper with a transmittal letter addressed to the Drawing Processing Branch.

#### 2. Timing for Corrections

Applicant is required to submit acceptable corrected drawings within the three-month shortened statutory period set in the Notice of Allowability (PTOL-37). If a correction is determined to be unacceptable by the Office, applicant must arrange to have acceptable corrections resubmitted within the original three-month period to avoid the necessity of obtaining an extension of time and paying the extension fee. Therefore, applicant should file corrected drawings as soon a possible.

Failure to take corrective action within set (or extended) period will result in ABANDONMENT of the Application.

### 3. Corrections other than Informalities Noted by the Drawing Review Branch on the Form PTO-948

All changes to the drawings, other than informalities noted by the Drawing Review Branch, MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.